

Meeting Notes
Buildings Work Group #2
October 5, 2007
City-County Building Rm. 662

Attendees:

- Madeleine Weil, City
- Patrick Hughs, ORNL
- Helen Hennon, QE²
- Tim Dimick, SACE
- Ken Wilson, SACE
- David Reister, Sierra Club
- Elizabeth Eason, USGBC
- Bruce Glanville
- Jeff Galyon, PBA
- Tom Irwin, KUB
- Susan Edwards, KUB
- Ginna French, TVA

Inventory Summary: The work group discussed ways that the inventory data could be benchmarked and contextualized. Ideas:

- Add criteria pollutant emissions to display.
- Convert numbers to equivalents that people recognize, i.e. how much time spent in a car, how many miles driven, how many balloons would the average house create if filled with CO₂, circles around the earth / to the moon.
- Calculate per capita / per household numbers – compare to other cities, state average, national average.
- Attach \$ to inventory numbers.
- Add square feet / heating & cooling degree days (see Amory Lovins website), compare with EIA averages.
- Knoxville Area Association of Realtors could provide square footage info.
- Translate to typical home or typical office building.

Projections: How to project data into future to create baselines? Ideas:

- KUB / TVA probably has done projections already. Also, historical data would be useful for demonstrating trends.
- EIA does projections at least to state level, possibly to census tract.
- MPC projects, as does school board.
- Look at growth inside city versus county.

Strategy template: Each proposal doesn't necessarily have to include each listed component. Template is intended to provide guidance.

Knoxville building energy codes: Residential energy code adopted last spring – 2006 IEC with some amendments. Questions raised about when commercial code adoption would happen.

Existing Programs: At the previous meeting the group requested a summary of existing programs offered by KUB and TVA. Ginna French (TVA), Susan Edwards and Tom Irwin (KUB) presented information about the following programs and provided informational brochures distributed.

- Green Power Switch – currently 2400 customers / 9500 blocks
- Generation Partners
 - Solar / wind installations
 - So far, one residential and one commercial partner.
 - Partners receive 15 cents per kWh + \$500 credit up front, with 10 year contract.
 - Net metering available to anybody who wants it.
 - Available for ½ kWh to 50 kWh.
- Energy Right program – home evaluations, heat pump systems, etc.
- Comprehensive Services Program for commercial / industrial customers – provides energy audits, predictive maintenance and technical services. So far, \$120K invested in audits, lots more than that saved. Customer must finance improvements.
- Enhanced Growth Credit Program – for certain SIC codes with all electric HVAC systems with >100kW demand (or >250kW demand for other SICs).
- State Energy Loan Program through TECD
 - Energy audit and upgrades for small businesses and local – loans available up to \$300k at 3% interest (or 0% in Three-Star communities, Knoxville is not one).
 - KUB does the audit – does approximately 6 per year.
 - Formerly required 7-year payback, may have changed this.
 - KUB has one full-time person for the region, though any licensed engineer can perform the audit.
 - Also available to local governments – max loan of \$500k at 3% interest (0% in Three-Star communities).
- TVA provided rate schedule summary and a newsletter article about TVA's energy efficiency strategic planning efforts.
- KUB provided info about water efficiency kits, distributed through community partners (CAC, KCDC) mostly to low-income customers.
- Discussion about increasing participation in existing programs among Knoxville customers.

Proposal by ORNL:

- Knoxville-Wide Housing Energy Efficiency Program
 - Two components: weatherization and energy efficiency repair/replacements. Could look at water conservation as well.
 - Could be designed in conjunction with KUB/TVA peak reduction efforts.
 - Financing would be key.
 - Expectation of 1:3 return (\$3 saved per \$1 invested).
 - Additional discussion at next meeting.

Upcoming SACE proposals:

- Incentive program - Energy Star for new homes.
- Increase Green Power Switch participation – target downtown Knoxville.

Upcoming QE2 proposal:

- Preventative maintenance for existing buildings.

Next Meeting: Friday, October 26th - 1:30, Room 662, City-County Building.